



Alberta Reproductive Health: Pregnancies & Births

**Table Update
2007**

Suggested citation: Alberta Reproductive Health Report Working Group (2007). *Alberta Reproductive Health: Pregnancies & Births Table Update 2007*. Edmonton, AB: Alberta Health and Wellness.

Working Group

Xinjie Cui BMed PhD (Project Lead)

Gary Gilham BSc

Thu-Ha Nguyen MPH

Leslie Twilley PhD

Manager, Public Health Surveillance and Environmental Health, Alberta Health and Wellness

Information Analyst, Health Accountability, Alberta Health and Wellness

Health Data Analyst, Public Health Surveillance and Environmental Health, Alberta Health and Wellness

Consultant, Entelechy Resources

For more information contact:

Public Health Surveillance & Environmental Health

Alberta Health and Wellness

24th Floor, Telus Plaza North Tower

10025 Jasper Avenue

PO Box 1360 STN MAIN

Edmonton, Alberta T5J 2N3

CANADA

Phone: 1 (780) 427-4518

Toll Free: 310-0000 (in Alberta only)

Fax: 1 (780) 427-1470

Email: Health.Surveillance@gov.ab.ca

Internet: <http://www.health.alberta.ca>

ISSN 1712-0780 Alberta reproductive health : Pregnancies and births table update 2007 (Print)

ISSN 1712-0845 Alberta reproductive health : Pregnancies and births table update 2007 (PDF)

1 Executive Summary

Pregnancies

Induced Abortions

- The induced abortion rate per 1,000 women aged 15-49 was 12.6 in 2006, up from 12.0 in 2005. The rate was stable between 2002 and 2005.

Deliveries

- Induction of labour rate was 31.5 per 100 hospital deliveries in 2005.
- The cesarean section rate increased to 26.1 (per 100 hospital deliveries) in 2005. The cesarean section rate was highest in Calgary Health Region in 2005 (27.8%).
- In 2005, 11.0% of hospital deliveries involved vacuum extraction, down from 12.1% in 2004. Forceps were used in 5.4% of hospital deliveries in 2005.

Maternal Age

- The average age at childbirth was 29.1 years in Alberta in 2006. This rate has not changed since 2004, following a previously increasing trend. Average maternal age was highest in Calgary Health Region.

Births

Fertility Rates

- There were 44,658 live births in 2006, up 7.5% over 2005.
- The general fertility rate (number of live births per 1,000 women aged 15-49 in a given year) was 51.3 in 2006. This rate has been increasing, starting in 2002.
- The total fertility rate (number of live births per 1,000 women aged 15-49 over a lifetime) was 2,131 in 2006, a dramatic increase over 2005 and previous years. The rate is lower in urban areas than in rural areas, but is increasing in all RHAs.

Live Births

Birth Weight

- The small-for-gestational-age rate was 8.1 (per 100 live singleton births) in 2006. There is an increasing trend starting in 2004.

Birth Weight (continued)

- The low birth weight rate was 7.0 in 2006, which is the highest rate in the 10-year period included in this report.
- The large-for-gestational-age rate was 11.1 (per 100 live singleton births) in 2006. This is the same as the 2005 rate, but the rate is down from a peak of 12.5 in 2001.
- In 2003, 11.2 out of every 100 liveborn infants weighed more than 4,000 grams, down from a high of 12.9 in 2000 and 2001.

Preterm Births

- The preterm birth rate was the 8.9 (per 100 live births) in 2006. The preterm birth rate is stable, following a pattern of increase up to 2004.

Multiple Births

- The multiple birth rate was 3.2 (per 100 live births) in 2006. This rate is stable over the five years leading up to 2006, after a longstanding increasing trend.

Mortality

Perinatal and Neonatal Mortality

- The neonatal mortality rate (per 1,000 live births) was 4.5 in 2004 to 2006 combined.

Post-Neonatal Mortality

- The post-neonatal mortality rate for 2004 to 2006 was 1.6 (per 1,000 live births).

Infant Mortality

- Infant mortality (per 1,000 live births) was 6.1 in 2004 to 2006.

2 Introduction

Alberta Reproductive Health: Pregnancies & Births Table Update 2007 follows the Alberta Reproductive Health: Pregnancies & Births 2006 report. This report is an update of selected indicators, based on data for the 10-year period from 1997 to 2006, and includes new Alberta data for 2006 (for some indicators, data are only available to 2005).

Topic Areas

- Induced abortions
- Labour inductions
- Operative deliveries (cesarean sections, forceps deliveries, vacuum extractions)
- Maternal age
- Live births
- Fertility rates
- Birth weight categories
- Preterm births
- Multiple births
- Mortality (neonatal, post-neonatal, and infant deaths)

Data Sources

- Vital Statistics Birth Registration Files
- Vital Statistics Death Registration Files
- Canadian Institute of Health Information Inpatient Files
- Fee-for-Service Claims Files
- Alberta Health Care Insurance Plan Stakeholder Registration File

Methodology Notes

“Residence RHA” refers to the regional health authority in which the mother resided at the time of the relevant event. All analyses reflect December 2003 RHA boundaries. Only Alberta residents are included in analyses unless otherwise stated.

Differences between means and rates should be interpreted in terms of standard errors and confidence intervals.

Caution should always be exercised in interpreting rates based on small numbers. Data are often combined across three-year periods (such as 2004 to 2006) in order to increase reliability of rates.

Populations used for the calculations of rates are derived from the Alberta Health Care Insurance Plan Registration Files. They are estimated at June 30 (mid-year population estimates), as viewed at December 31 of each year.

Induced abortion data for 2006 are preliminary. Induced abortion data are linked to Alberta Health Care Insurance Plan Registration Files to obtain demographic information. Because mid-year files are used (see previous note), linkage fails for women who became Alberta residents after June 30 of a given year and had induced abortions in the latter half of that year. This can be rectified for past years by linking with the population file for the subsequent year. For 2006 however, linkage is not possible because mid-year population files for 2007 are not yet released.

Methodology Notes (continued)

Population figures used in calculations in this report are in Tables 15 and 16.

Beginning with April 2002 data, new coding systems for classification of diseases (International Statistical Classification of Diseases and Related Health Problems Tenth Revision, Canada (ICD-10-CA)) and interventions (Canadian Classification of Health Interventions (CCI)) are in use. For data prior to April 2002, the International Classification of Disease – 9th Revision – Clinical Modification (ICD-9-CM)) Codes were used. Because the coding systems are not identical, there may be discrepancies between 2002 data and data for prior years. Comparisons of data coded with ICD-10-CA or CCI and those coded with ICD-9-CM should be undertaken with caution.

Because of differences in definitions and dates of extracting data for analyses, the statistics in this report may not be the same as those previously published by Alberta Health and Wellness.

Please refer to Alberta Reproductive Health: Pregnancies and Births 2006 for definitions, descriptions of data sources, data limitations, further methodology notes, and background information on the data described here. The 2006 report can be found at

<http://www.health.gov.ab.ca/resources/publications/reproductive06.pdf>

3 List of Tables

Table 1	Selected Indicators for Pregnancies and Births, Alberta, 1997 – 2006
Table 2	Selected Birth Outcomes by Residence RHA, Alberta, 2004 - 2006 Combined
Table 3	Induced Abortions and Rates by Year and Residence RHA, Alberta, 1997 to 2006
Table 4	Labour Inductions and Rates by Residence RHA and Year, Alberta, 2003 to 2005
Table 5	Cesarean Section, Forceps, and Vacuum Extraction Deliveries and Rates by Year and Residence RHA, Alberta, 2003 to 2005
Table 6	Mean Maternal Age by Residence RHA, Alberta, 1997 to 2006
Table 7	Live Births, General Fertility Rate, and Total Fertility Rate by Year and Residence RHA, Alberta, 1997 to 2006
Table 8	Singleton Small-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006
Table 9	Low Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006
Table 10	Singleton Large-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006
Table 11	High Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006
Table 12	Preterm Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006
Table 13	Multiple Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006
Table 14	Neonatal, Post-Neonatal, and Infant Deaths and Rates by Residence RHA, Alberta, 2004 to 2006 Combined
Table 15	Women 15 - 49 by Residence RHA, Alberta, 1997 to 2006
Table 16	Women 10 - 49 by Age Group, Alberta, 1997 to 2006

Table 1 Selected Indicators for Pregnancies and Births, Alberta, 1997 - 2006

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Live Births	36,550	37,529	37,778	36,625	37,226	38,293	39,868	40,292	41,547	44,658
Induced Abortion Rate (per 1,000 Women Aged 15-49)	13.3	12.7	12.5	12.8	12.4	12.1	12.0	12.0	12.0	12.6
Total Labour Induction Rate (per 100 Hospital Deliveries)	23.6	24.1	25.4	25.9	27.0	25.8	30.4	31.4	31.5	-
Mean Maternal Age at Delivery	28.6	28.6	28.7	28.8	28.8	28.9	29.0	29.1	29.1	29.1
General Fertility Rate (per 1,000 Women Aged 15-49)	48.3	48.5	47.7	45.7	45.6	46.0	47.4	47.6	48.6	51.3
Total Fertility Rate (per 1,000 Women Aged 15-49)	1,708	1,728	1,717	1,661	1,670	1,687	1,736	1,740	1,775	2,131
Crude Birth Rate (per 1,000 Population)	13.1	13.1	12.9	12.3	12.3	12.4	12.7	12.7	12.9	13.5
Low Birth Weight Rate (per 100 Live Births)	6.2	6.2	5.9	6.1	6.1	6.5	6.3	6.4	6.6	7.0
Small for Gestational Age Rate (per 100 Live Singleton Births)	9.4	9.1	8.3	7.9	7.8	7.6	7.6	7.7	7.9	8.1
High Birth Weight Rate (per 100 Live Births)	11.4	12.3	12.6	12.9	12.9	12.5	12.1	11.6	11.2	11.2
Large for Gestational Age Rate (per 100 Live Singleton Births)	10.5	11.4	11.6	12.3	12.5	12.1	11.9	11.9	11.1	11.1
Preterm Birth Rate (per 100 Live Births)	7.3	7.5	7.8	8.5	8.3	8.6	8.8	9.1	9.1	8.9
Multiple Birth Rate (per 100 Live Births)	2.5	2.7	2.7	3.0	3.1	3.2	3.2	3.4	3.2	3.2
Neonatal Mortality Rate (per 1,000 Live Births)	3.6	2.8	3.7	4.1	3.9	5.2	4.9	4.4	5.0	4.0
Post-Neonatal Mortality Rate (per 1,000 Live Births)	1.4	1.9	2.0	2.4	1.7	2.0	1.8	1.3	1.7	1.6
Infant Mortality Rate (per 1,000 Live Births)	4.9	4.7	5.7	6.5	5.6	7.3	6.7	5.8	6.7	5.6

Sources: Vital Statistics, Birth and Death Files, Department of Government Services, May 2007 release.

Clinics Files, Alberta Health and Wellness.

Fee-for-Service Claims Files, Alberta Health and Wellness.

Hospital Inpatient Files, Alberta Health and Wellness.

Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

1. Labour inductions were under-reported from April 2002 to March 2003.

Data include Alberta residents only.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 2 Selected Birth Outcomes by Residence RHA, Alberta, 2004 - 2006 Combined

Residence RHA	Total Singleton Live Births	Small for Gestational Age ¹		Large for Gestational Age ¹		Total Live Births	Preterm ²		Multiple Birth ²	
		Cases	Rate	Cases	Rate		Cases	Rate	Cases	Rate
Chinook	6,194	464	7.5	796	12.9	6,396	512	8.0	202	3.2
Palliser	3,868	330	8.5	428	11.1	3,991	241	6.0	123	3.1
Calgary	44,856	4,107	9.2	4,154	9.3	46,379	4,402	9.5	1,523	3.3
David Thompson	11,458	839	7.3	1,472	12.8	11,862	1,028	8.7	404	3.4
East Central	2,757	202	7.3	311	11.3	2,871	268	9.3	114	4.0
Capital	35,843	2,664	7.4	4,145	11.6	37,151	3,558	9.6	1,308	3.5
Aspen	7,155	460	6.4	1,052	14.7	7,366	647	8.8	211	2.9
Peace Country	6,160	399	6.5	905	14.7	6,332	470	7.4	172	2.7
Northern Lights	4,104	235	5.7	632	15.4	4,186	277	6.6	82	2.0
Unknown	3	0		1		3	1			
Alberta	122,398	9,700	7.9	13,896	11.4	126,537	11,404	9.0	4,139	3.3

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: 1. Small- and large-for-gestational-age rates are calculated per 100 live singleton births.

2. Preterm and multiple birth rates are calculated per 100 live births.

Data include Alberta residents only.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 3 Induced Abortions and Rates by Year and Residence RHA, Alberta, 1997 to 2006

Induced abortions	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006 ¹
Chinook	321	260	293	276	284	282	277	330	271	301
Palliser	206	194	178	245	211	218	219	214	218	252
Calgary	4,252	4,167	4,388	4,461	4,486	4,590	4,552	4,585	4,467	4,748
David Thompson	621	627	630	696	716	720	739	761	758	813
East Central	173	197	152	173	168	184	167	159	159	196
Capital	3,531	3,435	3,357	3,480	3,360	3,169	3,226	3,228	3,381	3,634
Aspen	408	414	428	402	399	429	442	436	461	512
Peace Country	348	342	308	335	287	298	257	283	273	222
Northern Lights	169	161	181	185	202	144	194	170	227	239
Alberta	10,030	9,797	9,915	10,253	10,114	10,034	10,073	10,167	10,216	10,917
Rate (per 1,000 women 15-49)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	8.8	7.1	7.9	7.4	7.6	7.5	7.4	8.8	7.2	8.0
Palliser	9.1	8.4	7.5	10.2	8.6	8.8	8.8	8.6	8.7	10.0
Calgary	15.7	14.9	15.2	15.1	14.9	14.8	14.5	14.4	13.8	14.4
David Thompson	9.4	9.2	9.0	9.8	10.0	9.9	10.1	10.3	10.2	10.8
East Central	6.8	7.7	5.9	6.7	6.4	7.0	6.3	6.1	6.1	7.5
Capital	14.5	14.0	13.4	13.7	13.1	12.1	12.2	12.1	12.6	13.4
Aspen	9.4	9.4	9.6	9.1	8.9	9.5	9.9	9.8	10.4	11.5
Peace Country	10.8	10.4	9.2	9.9	8.4	8.6	7.4	8.1	7.7	6.1
Northern Lights	10.3	9.4	10.4	10.4	11.0	7.5	9.7	8.2	10.8	11.1
Alberta	13.3	12.7	12.5	12.8	12.4	12.1	12.0	12.0	12.0	12.6

Sources: Vital Statistics, Birth and Stillbirth Files, Department of Government Services, May 2007 release.

Fee-for-Services Claims Files, Alberta Health and Wellness.

Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

Notes: 1. 2006 data are preliminary and are likely slightly underestimated.

Totals for RHAs include unknown RHAs.

Data include Alberta residents only, with the exception of spontaneous abortion data (included in estimated pregnancies) prior to 2000, which may contain 'out of province' cases.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 4 Labour Inductions and Rates by Residence RHA and Year, Alberta, 2003 to 2005¹

<u>2003</u>	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,031	1,214	13,895	3,697	1,147	11,337	2,257	1,988	1,260	38,826
Total inductions	608	214	4,110	1,006	389	3,423	1,178	562	323	11,813
Total inductions rate (per 100 hospital deliveries)	29.9	17.6	29.6	27.2	33.9	30.2	52.2	28.3	25.6	30.4
Medical inductions	375	105	2,178	677	231	1,913	431	477	286	6,673
Medical induction rate (per 100 hospital deliveries)	18.5	8.6	15.7	18.3	20.1	16.9	19.1	24.0	22.7	17.2
Surgical inductions	38	5	350	58	44	232	31	22	16	796
Surgical inductions rate (per 100 hospital deliveries)	1.9	0.4	2.5	1.6	3.8	2.0	1.4	1.1	1.3	2.1
Combined inductions	16	14	1,074	175	49	761	65	41	12	2,207
Combined inductions rate (per 100 hospital deliveries)	0.8	1.2	7.7	4.7	4.3	6.7	2.9	2.1	1.0	5.7
<u>2004</u>	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,012	1,244	14,109	3,693	1,250	11,544	2,320	1,904	1,326	39,402
Total inductions	570	261	4,550	932	428	3,382	1,384	520	352	12,379
Total inductions rate (per 100 hospital deliveries)	28.3	21.0	32.2	25.2	34.2	29.3	59.7	27.3	26.5	31.4
Medical inductions	464	105	1,781	579	210	1,953	416	458	262	6,228
Medical induction rate (per 100 hospital deliveries)	23.1	8.4	12.6	15.7	16.8	16.9	17.9	24.1	19.8	15.8
Surgical inductions	40	8	265	51	41	173	38	24	15	655
Surgical inductions rate (per 100 hospital deliveries)	2.0	0.6	1.9	1.4	3.3	1.5	1.6	1.3	1.1	1.7
Combined inductions	18	20	1,683	195	88	689	76	19	37	2,825
Combined inductions rate (per 100 hospital deliveries)	0.9	1.6	11.9	5.3	7.0	6.0	3.3	1.0	2.8	7.2
<u>2005</u>	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,043	1,294	14,834	3,749	1,233	11,628	2,336	2,010	1,327	40,454
Total inductions	592	271	4,706	905	425	3,530	1,344	519	435	12,727
Total inductions rate (per 100 hospital deliveries)	29.0	20.9	31.7	24.1	34.5	30.4	57.5	25.8	32.8	31.5
Medical inductions	487	99	1,709	573	198	2,020	410	405	236	6,137
Medical induction rate (per 100 hospital deliveries)	23.8	7.7	11.5	15.3	16.1	17.4	17.6	20.1	17.8	15.2
Surgical inductions	51	5	331	38	31	207	41	50	42	796
Surgical inductions rate (per 100 hospital deliveries)	2.5	0.4	2.2	1.0	2.5	1.8	1.8	2.5	3.2	2.0
Combined inductions	11	21	1,553	177	122	647	65	29	103	2,728
Combined inductions rate (per 100 hospital deliveries)	0.5	1.6	10.5	4.7	9.9	5.6	2.8	1.4	7.8	6.7

Source: Canadian Institute of Health Information Inpatient Files, Alberta Health and Wellness.

Notes: 1. From April 2003 onward, outpatient inductions were included in total inductions but were not categorized as medical, surgical, or combined. Consequently, "total inductions" is greater than the sum of medical, surgical, and combined from 2003 onward.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 5 Cesarean Section, Forceps, and Vacuum Extraction Deliveries and Rates by Year and Residence RHA, Alberta, 2003 to 2005

2003	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,031	1,214	13,895	3,697	1,147	11,337	2,257	1,988	1,260	38,826
Cesarean section cases	423	233	3,600	859	290	2,680	532	436	274	9,327
Cesarean section rate (per 100 hospital deliveries)	20.8	19.2	25.9	23.2	25.3	23.6	23.6	21.9	21.7	24.0
Forceps deliveries	58	12	669	238	67	863	108	33	114	2,162
Forceps delivery rate (per 100 hospital deliveries)	2.9	1.0	4.8	6.4	5.8	7.6	4.8	1.7	9.0	5.6
Vacuum extraction deliveries	211	118	2,342	180	123	1,129	258	136	188	4,685
Vacuum extraction rate (per 100 hospital deliveries)	10.4	9.7	16.9	4.9	10.7	10.0	11.4	6.8	14.9	12.1

2004	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,012	1,244	14,109	3,693	1,250	11,544	2,320	1,904	1,326	39,402
Cesarean section cases	451	294	3,758	1,011	362	2,868	543	433	296	10,016
Cesarean section rate (per 100 hospital deliveries)	22.4	23.6	26.6	27.4	29.0	24.8	23.4	22.7	22.3	25.4
Forceps deliveries	68	28	711	220	84	907	90	21	98	2,227
Forceps delivery rate (per 100 hospital deliveries)	3.4	2.3	5.0	6.0	6.7	7.9	3.9	1.1	7.4	5.7
Vacuum extraction deliveries	212	113	2,460	177	159	1,113	242	106	185	4,767
Vacuum extraction rate (per 100 hospital deliveries)	10.5	9.1	17.4	4.8	12.7	9.6	10.4	5.6	14.0	12.1

2005	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,043	1,294	14,834	3,749	1,233	11,628	2,336	2,010	1,327	40,454
Cesarean section cases	457	302	4,118	992	337	3,003	578	456	304	10,547
Cesarean section rate (per 100 hospital deliveries)	22.4	23.3	27.8	26.5	27.3	25.8	24.7	22.7	22.9	26.1
Forceps deliveries	112	19	674	180	88	901	89	34	103	2,200
Forceps delivery rate (per 100 hospital deliveries)	5.5	1.5	4.5	4.8	7.1	7.7	3.8	1.7	7.8	5.4
Vacuum extraction deliveries	204	81	2,396	169	175	850	239	160	171	4,445
Vacuum extraction rate (per 100 hospital deliveries)	10.0	6.3	16.2	4.5	14.2	7.3	10.2	8.0	12.9	11.0

Source: Canadian Institute of Health Information Inpatient Files, Alberta Health and Wellness.

Notes: Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 6 Mean Maternal Age by Residence RHA, Alberta, 1997 to 2006

Mean maternal age	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	27.4	27.4	27.4	27.8	27.6	27.7	27.7	27.8	27.9	27.8
Palliser	27.6	27.5	27.4	27.4	27.6	27.5	27.8	27.7	27.8	27.6
Calgary	29.7	29.7	29.8	29.8	30.0	30.0	30.2	30.2	30.4	30.4
David Thompson	27.4	27.6	27.4	27.5	27.4	27.7	27.5	27.7	27.6	27.5
East Central	28.3	28.4	28.4	28.4	28.5	28.6	28.3	28.4	28.3	28.5
Capital	28.9	28.8	29.0	29.0	29.1	29.1	29.3	29.3	29.3	29.4
Aspen	27.1	27.2	27.0	27.3	27.3	27.4	27.4	27.2	27.4	27.2
Peace Country	27.0	26.7	26.9	26.9	27.1	27.1	27.0	27.3	27.2	27.1
Northern Lights	26.6	26.7	26.6	27.0	27.1	26.9	27.4	27.3	27.3	27.6
Alberta	28.6	28.6	28.7	28.8	28.8	28.9	29.0	29.1	29.1	29.1

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 7 Live Births, General Fertility Rate, and Total Fertility Rate by Year and Residence RHA, Alberta, 1997 to 2006

Live births	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	2,135	2,018	2,064	1,945	1,960	1,969	2,093	2,047	2,106	2,243
Palliser	1,186	1,243	1,232	1,221	1,230	1,226	1,258	1,278	1,349	1,364
Calgary	12,437	12,900	12,990	13,064	13,109	13,588	14,473	14,606	15,432	16,341
David Thompson	3,533	3,567	3,648	3,474	3,482	3,616	3,727	3,786	3,824	4,252
East Central	978	996	961	908	882	971	898	954	925	992
Capital	10,823	11,189	11,320	10,790	11,054	11,293	11,702	11,915	12,106	13,130
Aspen	2,501	2,594	2,540	2,285	2,404	2,408	2,386	2,396	2,386	2,584
Peace Country	1,851	1,918	1,947	1,818	1,907	1,921	2,037	1,959	2,075	2,298
Northern Lights	1,106	1,101	1,070	1,116	1,192	1,299	1,292	1,348	1,384	1,454
Alberta	36,550	37,529	37,778	36,625	37,226	38,293	39,868	40,292	41,587	44,658
General Fertility Rate (per 1,000 women 15-49)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	58.5	55.0	55.6	52.0	52.3	52.6	55.8	54.4	56.0	59.3
Palliser	52.5	53.8	52.0	50.9	50.1	49.2	50.6	51.1	53.6	53.9
Calgary	46.1	46.0	44.9	44.3	43.4	43.9	46.0	45.9	47.8	49.4
David Thompson	53.3	52.3	52.3	49.1	48.5	49.6	50.7	51.1	51.3	56.3
East Central	38.6	38.8	37.4	35.1	33.8	36.9	34.1	36.4	35.3	38.0
Capital	44.5	45.5	45.1	42.6	43.0	43.2	44.3	44.8	45.3	48.3
Aspen	57.8	59.0	57.2	51.5	53.7	53.4	53.3	53.8	53.9	58.1
Peace Country	57.5	58.2	57.8	53.7	55.9	55.5	58.7	55.9	58.7	63.4
Northern Lights	67.3	64.5	61.4	62.8	65.1	67.4	64.5	65.4	65.7	67.5
Alberta	48.3	48.5	47.7	45.7	45.6	46.0	47.4	47.6	48.7	51.3
Total Fertility Rate (per 1,000 women 15-49)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	2,104	2,014	2,054	1,936	1,947	1,954	2,052	1,990	2,048	2,460
Palliser	1,918	1,972	1,923	1,898	1,874	1,832	1,887	1,878	1,951	2,254
Calgary	1,585	1,598	1,571	1,567	1,544	1,564	1,639	1,637	1,702	1,916
David Thompson	1,959	1,936	1,958	1,866	1,848	1,893	1,938	1,941	1,941	2,491
East Central	1,464	1,481	1,460	1,399	1,355	1,483	1,369	1,454	1,412	1,721
Capital	1,565	1,621	1,621	1,548	1,574	1,580	1,616	1,638	1,646	1,977
Aspen	2,045	2,113	2,092	1,909	2,026	2,034	2,033	2,051	2,051	2,753
Peace Country	1,993	2,027	2,042	1,914	2,003	1,997	2,102	2,001	2,079	2,743
Northern Lights	2,263	2,174	2,090	2,156	2,247	2,329	2,222	2,249	2,237	2,791
Alberta	1,708	1,728	1,717	1,661	1,670	1,687	1,736	1,740	1,775	2,131

Sources: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Alberta Health Care Insurance Plan Registration File.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 8 Singleton Small-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006

Singleton small-for-gestational-age live births	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	164	151	149	117	137	115	142	142	157	165
Palliser	121	134	105	105	105	98	102	95	117	118
Calgary	1,265	1,298	1,133	1,074	1,113	1,113	1,215	1,243	1,389	1,475
David Thompson	306	313	260	251	224	261	254	262	252	325
East Central	66	73	74	66	65	76	41	68	63	71
Capital	926	924	888	830	827	773	810	843	837	984
Aspen	244	193	182	143	162	149	137	164	143	153
Peace Country	159	139	141	146	121	140	133	121	137	141
Northern Lights	105	86	102	80	71	78	89	77	80	78
Alberta	3,356	3,311	3,035	2,813	2,825	2,803	2,923	3,015	3,175	3,510

Rate (per 100 singleton live births)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	7.9	7.6	7.4	6.3	7.2	6.0	7.0	7.2	7.7	7.6
Palliser	10.4	11.0	8.8	8.9	8.8	8.3	8.4	7.7	9.0	8.9
Calgary	10.5	10.4	9.0	8.5	8.8	8.5	8.7	8.8	9.3	9.3
David Thompson	8.9	9.0	7.3	7.4	6.6	7.5	7.0	7.2	6.9	7.9
East Central	6.9	7.4	8.0	7.6	7.6	8.0	4.7	7.4	7.1	7.4
Capital	8.8	8.5	8.1	7.9	7.7	7.0	7.1	7.3	7.2	7.8
Aspen	10.0	7.6	7.3	6.4	6.9	6.3	6.0	7.0	6.1	6.1
Peace Country	8.7	7.5	7.4	8.2	6.5	7.5	6.7	6.4	6.8	6.3
Northern Lights	9.8	8.0	9.7	7.4	6.1	6.2	7.1	5.8	5.9	5.5
Alberta	9.4	9.1	8.3	7.9	7.8	7.6	7.6	7.7	7.9	8.1

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 9 Low Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006

Low birth weight live births	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	111	95	128	118	114	99	111	111	112	146
Palliser	61	72	75	58	73	82	82	57	79	80
Calgary	846	891	806	861	873	992	990	1,046	1,133	1,222
David Thompson	215	210	199	184	215	229	204	214	238	307
East Central	54	49	49	56	57	65	66	73	63	65
Capital	675	711	670	676	669	722	753	774	837	921
Aspen	133	138	148	136	120	138	149	155	119	162
Peace Country	92	105	100	103	91	94	95	106	91	130
Northern Lights	64	56	68	57	53	65	67	53	56	77
Alberta	2,251	2,328	2,243	2,250	2,265	2,486	2,517	2,589	2,728	3,110

Rate (per 100 live births)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	5.2	4.7	6.2	6.1	5.8	5.0	5.3	5.4	5.3	6.5
Palliser	5.1	5.8	6.1	4.8	5.9	6.7	6.5	4.5	5.9	5.9
Calgary	6.8	6.9	6.2	6.6	6.7	7.3	6.8	7.2	7.3	7.5
David Thompson	6.1	5.9	5.5	5.3	6.2	6.3	5.5	5.7	6.2	7.2
East Central	5.5	4.9	5.1	6.2	6.5	6.7	7.3	7.7	6.8	6.6
Capital	6.2	6.4	5.9	6.3	6.1	6.4	6.4	6.5	6.9	7.0
Aspen	5.3	5.3	5.8	6.0	5.0	5.7	6.2	6.5	5.0	6.3
Peace Country	5.0	5.5	5.1	5.7	4.8	4.9	4.7	5.4	4.4	5.7
Northern Lights	5.8	5.1	6.4	5.1	4.4	5.0	5.2	3.9	4.0	5.3
Alberta	6.2	6.2	5.9	6.1	6.1	6.5	6.3	6.4	6.6	7.0

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 10 Singleton Large-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006

Singleton large-for-gestational-age live births	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	231	274	253	290	237	251	258	270	263	263
Palliser	123	119	120	141	142	143	139	127	134	167
Calgary	1,034	1,186	1,271	1,329	1,317	1,316	1,375	1,370	1,353	1,431
David Thompson	367	443	445	460	518	483	481	491	470	511
East Central	117	125	104	102	111	118	112	114	97	100
Capital	1,217	1,310	1,362	1,327	1,332	1,376	1,387	1,388	1,368	1,389
Aspen	298	356	339	337	348	364	360	357	320	375
Peace Country	205	217	225	226	305	259	299	294	273	338
Northern Lights	155	138	158	170	188	181	178	203	202	227
Alberta	3,747	4,169	4,278	4,382	4,498	4,492	4,589	4,615	4,480	4,801

Rate (per 100 singleton live births)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	11.1	13.8	12.6	15.5	12.5	13.2	12.6	13.6	12.9	12.1
Palliser	10.6	9.8	10.0	12.0	12.0	12.1	11.4	10.3	10.3	12.5
Calgary	8.6	9.5	10.1	10.5	10.4	10.0	9.9	9.7	9.0	9.1
David Thompson	10.7	12.8	12.6	13.6	15.3	13.9	13.3	13.4	12.8	12.4
East Central	12.3	12.7	11.2	11.7	13.0	12.4	12.9	12.5	11.0	10.4
Capital	11.5	12.0	12.3	12.7	12.4	12.5	12.2	12.1	11.7	11.0
Aspen	12.2	14.0	13.7	15.1	14.9	15.5	15.7	15.3	13.7	15.0
Peace Country	11.2	11.6	11.9	12.7	16.4	13.9	15.1	15.4	13.5	15.1
Northern Lights	14.5	12.8	15.0	15.7	16.0	14.5	14.2	15.3	14.9	16.0
Alberta	10.5	11.4	11.6	12.3	12.5	12.1	11.9	11.9	11.1	11.1

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 11 High Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006

High birth weight live births	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	231	290	283	318	269	286	282	264	278	285
Palliser	155	142	150	171	162	173	160	153	161	190
Calgary	1,241	1,381	1,456	1,427	1,414	1,387	1,490	1,380	1,442	1,480
David Thompson	438	507	509	487	553	509	490	527	480	527
East Central	129	135	115	115	110	123	120	105	104	120
Capital	1,254	1,364	1,430	1,363	1,371	1,395	1,408	1,359	1,360	1,406
Aspen	329	400	378	369	367	387	373	361	338	392
Peace Country	239	266	278	262	337	300	316	322	297	355
Northern Lights	160	147	164	201	212	212	195	213	197	229
Alberta	4,176	4,633	4,764	4,713	4,796	4,773	4,834	4,684	4,657	4,984

Rate (per 100 live births)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	10.8	14.4	13.7	16.3	13.7	14.5	13.5	12.9	13.2	12.7
Palliser	13.1	11.4	12.2	14.0	13.2	14.1	12.7	12.0	11.9	13.9
Calgary	10.0	10.7	11.2	10.9	10.8	10.2	10.3	9.4	9.3	9.1
David Thompson	12.4	14.2	14.0	14.0	15.9	14.1	13.1	13.9	12.6	12.4
East Central	13.2	13.6	12.0	12.7	12.5	12.7	13.4	11.0	11.2	12.1
Capital	11.6	12.2	12.6	12.6	12.4	12.4	12.0	11.4	11.2	10.7
Aspen	13.2	15.4	14.9	16.2	15.3	16.1	15.6	15.1	14.2	15.2
Peace Country	12.9	13.9	14.3	14.4	17.7	15.6	15.5	16.4	14.3	15.4
Northern Lights	14.5	13.4	15.3	18.0	17.8	16.3	15.1	15.8	14.2	15.7
Alberta	11.4	12.3	12.6	12.9	12.9	12.5	12.1	11.6	11.2	11.2

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 12 Preterm Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006

Preterm live births	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	131	130	143	149	142	135	161	169	147	196
Palliser	69	98	77	79	88	93	105	68	85	88
Calgary	917	994	1,045	1,131	1,126	1,243	1,349	1,383	1,509	1,510
David Thompson	246	229	257	257	278	299	279	319	350	359
East Central	56	70	59	84	82	84	99	86	90	92
Capital	875	920	952	1,019	986	1,024	1,095	1,177	1,179	1,202
Aspen	163	176	199	187	192	207	192	232	193	222
Peace Country	116	116	121	112	141	124	144	149	137	184
Northern Lights	82	81	83	80	73	90	97	82	91	104
Alberta	2,655	2,815	2,936	3,098	3,108	3,300	3,521	3,666	3,781	3,957

Rate (per 100 live births)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	6.1	6.4	6.9	7.7	7.2	6.9	7.7	8.3	7.0	8.7
Palliser	5.8	7.9	6.3	6.5	7.2	7.6	8.3	5.3	6.3	6.5
Calgary	7.4	7.7	8.0	8.7	8.6	9.1	9.3	9.5	9.8	9.2
David Thompson	7.0	6.4	7.0	7.4	8.0	8.3	7.5	8.4	9.2	8.4
East Central	5.7	7.0	6.1	9.3	9.3	8.7	11.0	9.0	9.7	9.3
Capital	8.1	8.2	8.4	9.4	8.9	9.1	9.4	9.9	9.7	9.2
Aspen	6.5	6.8	7.8	8.2	8.0	8.6	8.0	9.7	8.1	8.6
Peace Country	6.3	6.0	6.2	6.2	7.4	6.5	7.1	7.6	6.6	8.0
Northern Lights	7.4	7.4	7.8	7.2	6.1	6.9	7.5	6.1	6.6	7.2
Alberta	7.3	7.5	7.8	8.5	8.3	8.6	8.8	9.1	9.1	8.9

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 13 Multiple Births and Rates by Year and Residence RHA, Alberta, 1997 to 2006

Multiple live births	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	49	34	63	74	66	62	53	64	62	76
Palliser	25	26	36	46	42	41	39	44	47	32
Calgary	347	383	370	385	452	468	529	494	478	551
David Thompson	89	102	104	95	96	140	107	127	151	126
East Central	26	14	36	34	29	22	32	40	40	34
Capital	283	308	289	335	322	319	347	444	418	446
Aspen	55	55	59	60	67	60	87	68	58	85
Peace Country	23	53	53	34	46	61	61	54	58	60
Northern Lights	35	27	19	35	20	48	39	24	26	32
Alberta	932	1,002	1,029	1,098	1,140	1,221	1,294	1,359	1,338	1,442

Rate (per 100 live births)	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	2.3	1.7	3.1	3.8	3.4	3.1	2.5	3.1	2.9	3.4
Palliser	2.1	2.1	2.9	3.8	3.4	3.3	3.1	3.4	3.5	2.3
Calgary	2.8	3.0	2.8	2.9	3.4	3.4	3.7	3.4	3.1	3.4
David Thompson	2.5	2.9	2.9	2.7	2.8	3.9	2.9	3.4	3.9	3.0
East Central	2.7	1.4	3.7	3.7	3.3	2.3	3.6	4.2	4.3	3.4
Capital	2.6	2.8	2.6	3.1	2.9	2.8	3.0	3.7	3.5	3.4
Aspen	2.2	2.1	2.3	2.6	2.8	2.5	3.6	2.8	2.4	3.3
Peace Country	1.2	2.8	2.7	1.9	2.4	3.2	3.0	2.8	2.8	2.6
Northern Lights	3.2	2.5	1.8	3.1	1.7	3.7	3.0	1.8	1.9	2.2
Alberta	2.5	2.7	2.7	3.0	3.1	3.2	3.2	3.4	3.2	3.2

Source: Vital Statistics, Birth File, Department of Government Services, May 2007 release.

Notes: Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 14 Neonatal¹, Post-Neonatal², and Infant³ Deaths and Rates by Residence RHA, Alberta, 2004 to 2006 Combined

	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Live births	6,396	3,991	46,379	11,862	2,871	37,151	7,366	6,332	4,186	126,537
Neonatal deaths	18	15	163	61	17	202	41	31	16	565
Neonatal mortality rate (per 1,000 live births)	2.8	3.8	3.5	5.1	5.9	5.4	5.6	4.9	3.8	4.5
Post-neonatal deaths	7	8	63	22	3	52	22	13	7	197
Post-neonatal mortality rate (per 1,000 live births)	1.1	2.0	1.4	1.9	1.0	1.4	3.0	2.1	1.7	1.6
Infant deaths	25	23	226	83	20	254	63	44	23	762
Infant mortality rate (per 1,000 live births)	3.9	5.8	4.9	7.0	7.0	6.8	8.6	6.9	5.5	6.0

Source: Vital Statistics, Birth and Death Files, Department of Government Services, May 2007 release.

Notes: 1. Neonatal deaths refers to deaths of live born infants less than 28 full days after birth.

2. Post-neonatal deaths refers to deaths of children between 28 full days and one year of age.

3. Infant deaths refers to deaths of children under one year of age.

Data include Alberta residents only.

Totals for RHAs include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 15 Women 15 - 49 by Residence RHA, Alberta, 1997 to 2006

Residence RHA	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Chinook	36,526	36,667	37,116	37,409	37,453	37,469	37,538	37,637	37,620	37,820
Palliser	22,598	23,112	23,687	24,010	24,533	24,896	24,841	25,011	25,177	25,302
Calgary	270,007	280,183	289,318	294,761	301,784	309,686	314,359	318,119	322,633	330,679
David Thompson	66,295	68,165	69,694	70,704	71,763	72,962	73,520	74,125	74,553	75,569
East Central	25,328	25,663	25,721	25,838	26,088	26,345	26,308	26,207	26,172	26,136
Capital	243,425	246,101	250,900	253,364	256,989	261,592	264,438	265,829	267,430	271,912
Aspen	43,303	44,003	44,416	44,399	44,765	45,130	44,774	44,538	44,291	44,506
Peace Country	32,202	32,977	33,660	33,874	34,118	34,583	34,705	35,038	35,364	36,245
Northern Lights	16,424	17,081	17,419	17,784	18,304	19,263	20,028	20,611	21,073	21,548
Unknown	39	107	50	39	116	38	49	59	36	59
Total Women 15-49	756,147	774,059	791,981	802,182	815,913	831,964	840,560	847,174	854,349	869,776
Alberta Population	2,791,334	2,854,621	2,923,449	2,967,755	3,022,891	3,086,646	3,134,337	3,179,036	3,222,191	3,298,028

Source: Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

Notes: Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 16 Women 10 - 49 by Age Group, Alberta, 1997 to 2006

Age group	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10-14	106,030	107,146	108,776	110,073	110,821	111,927	112,452	111,565	110,360	110,161
15-17	60,090	62,489	64,531	65,499	66,621	67,490	67,455	68,065	69,187	70,552
18-19	38,136	39,617	40,965	42,723	44,386	45,513	45,940	46,249	46,372	46,284
15-19	98,226	102,106	105,496	108,222	111,007	113,003	113,395	114,314	115,559	116,836
20-24	95,077	98,376	102,104	103,552	106,634	110,520	113,900	116,575	118,397	122,100
25-29	101,729	104,141	105,731	105,981	106,813	109,731	111,509	113,764	116,210	121,374
30-34	117,541	114,614	112,685	110,996	112,047	113,471	114,564	114,582	115,321	117,553
35-39	130,859	132,964	133,934	132,554	129,575	126,332	122,284	119,152	117,930	120,304
40-44	117,949	123,113	127,749	131,234	133,936	137,029	138,222	138,573	137,349	135,051
45-49	94,766	98,745	104,282	109,643	115,901	121,878	126,686	130,214	133,583	136,558
Women aged 15 - 49	756,147	774,059	791,981	802,182	815,913	831,964	840,560	847,174	854,349	869,776
Women aged 10 - 49	862,177	881,205	900,757	912,255	926,734	943,891	953,012	958,739	964,709	979,937
Alberta Population	2,791,334	2,854,621	2,923,449	2,967,755	3,022,891	3,086,646	3,134,337	3,179,036	3,222,191	3,298,028

Source: Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

Notes: Data may differ from previously published data due to differences in definitions and dates of data extraction.

LIBRARY AND ARCHIVES CANADA
Bibliothèque et Archives Canada



3 3286 53831075 2